

Appl. No. : 10/009,823  
Filed : November 13, 2001

*Vibrio parahaemolyticus* (V. parah) (SEQ ID NO:12) and *Borrelia burgdorferi* (B.burgd)(SEQ ID NO:13). Gaps have been introduced to optimise the alignment. Positions containing identical amino acid residues with respect to the FlgE polypeptide of *Lawsonia intracellularis* (SEQ ID NO:1) are shaded. Residues that are identical in all eight sequences appear in boldface. --.

#### **IN THE SEQUENCE LISTING**

Please cancel from the application Original Sequence Listing pages 1-9 and substitute therefore the attached Replacement Sequence Listing pages 1-12.

#### **REMARKS**

This Response to the Notice Comply amends the Sequence listing to conform to requirements under the USPTO. The Sequence Listing and Specification were amended to add the sequences appearing in Figure 1. None of the above amendments incorporate new matter.

Enclosed herewith are: (1) a paper copy of the Replacement Sequence Listing, (2) and a computer readable version of the Replacement Sequence Listing. The Response to Notice to Comply directs entry of the paper copy of the Sequence Listing into the application. In view of the foregoing, the application is believed to fully comply with the Sequence Listing Disclosure requirements.

The changes made to the specification by the current amendment, including [deletions] and additions, are shown on an attached sheet entitled **VERSION WITH MARKINGS TO SHOW CHANGES MADE**, which follows the signature page of this Preliminary Amendment.

#### **VERIFICATION UNDER 37 C.F.R. §1.821(f) & (g)**

All of the sequences in the attached Sequence Listing were included in the application as filed. Pursuant to 37 C.F.R. §1.821(g), no new matter is being added herewith. As required under 37 C.F.R. §1.821(f), I hereby verify that the data on the enclosed disk and the paper copies of the Sequence Listing are identical.

#### **Conclusion**

Should there be any questions concerning this application, the Examiner is respectfully invited to contact the undersigned at the telephone number appearing below. Please charge any

Appl. No. : 10/009,823  
Filed : November 13, 2001

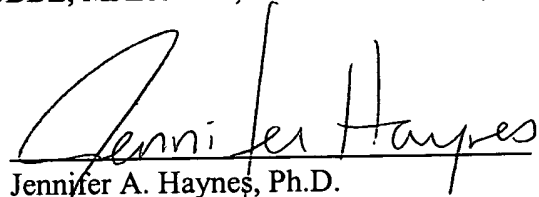
additional fees, including any fees for additional extension of time, or credit overpayment to  
Deposit Account No. 11-1410.

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: August 9, 2002

By:



Jennifer A. Haynes, Ph.D.  
Registration No. 48,868  
Agent of Record  
620 Newport Center Drive  
Sixteenth Floor  
Newport Beach, CA 92660  
(949) 760-0404

**VERSION WITH MARKINGS TO SHOW CHANGES MADE**  
**IN THE SPECIFICATION**

On page 7, fourth complete paragraph, lines 24-32, please replace the paragraph with the following:

--**Figure 1** is a schematic representation comparing the amino acid sequence of *Lawsonia intracellularis* (L. int) flagellar hook protein FlgE (SEQ ID NO:1) to the amino acid sequences of flagellar hook proteins derived from *Treponema phagedenis* (T.phage)(SEQ ID NO:7), *Treponema pallidum* (T. palli)(SEQ ID NO:8), *Salmonella typhimurium* (S.typhi)(SEQ ID NO:9), *Escherichia coli* (E.coli)(SEQ ID NO:10), *Aquifex aeolicus* (A.aeo)(SEQ ID NO:11), *Vibrio parahaemolyticus* (V. parah) (SEQ ID NO:12) and *Borrelia burgdorferi* (B.burgd)(SEQ ID NO:13). Gaps have been introduced to optimise the alignment. Positions containing identical amino acid residues with respect to the FlgE polypeptide of *Lawsonia intracellularis* (SEQ ID NO:1) are shaded. Residues that are identical in all eight sequences appear in boldface. --.